SERIES 5

Plasma TV

user manual

imagine the possibilities

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SAMSUNG

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BN68-01938A-00

User Instructions

- **Screen Image retention**

  Do not display a still image (such as on a video game or when hooking up a PC to this PDP) on the plasma monitor panel for more than 2 hours as it can cause screen image retention. This image retention is also known as “screen burn”. To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.

- **Height**

  The PDP can normally operate only under 2000m in height. It might abnormally function at a place over 2000m in height so do not install and operate there.

- **Heat on the top of the PDP TV**

  The top side of the product may be hot after long period of use as heat dissipates from the panel through the vent hole in the upper part of the product. This is normal and does not indicate any defect or operation failure of the product. However, children should be prevented from touching the upper part of the product.

- **The product is making a ‘cracking’ noise.**

  A ‘cracking’ noise may occur when the product contracts or expands due to a change of surrounding environment such as temperature or humidity. This is normal and not a defect of the unit.

- **Cell Defects**

  The PDP uses a panel consisting of 1,230,000(SD-level) to 3,150,000(HD-level) pixels which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

- **Avoid operating the TV at temperatures below 5°C(41°F)**

- **A still image displayed too long may cause permanent damage to the PDP Panel.**

  Watching the PDP TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.

- **Afterimage on the Screen.**

  Displaying still images from Video games and PC for longer than a certain period of time may produce partial afterimages.
  To prevent this effect, reduce the ‘brightness’ and ‘contrast’ when displaying still images.

- **Warranty**
  - Warranty does not cover any damage caused by image retention.
  - Burn-in is not covered by the warranty.

- **Installation**

  Be sure to contact an authorized service centre, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substance and where it operates continually such as the airport, the train station etc. Failure to do so may cause a serious damage to your set.

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Contents

Connecting and Preparing Your TV

- Checking Parts 4
- Using the Stand-Base 4
- Assembling the Cables 4
- Viewing the Control Panel 5
- Viewing the Connection Panel 6
- Remote Control 7
- Installing Batteries in the Remote Control 8
- Switching On and Off 8
- Placing Your Television in Standby Mode 8
- Viewing the Menus 9
- Using the TOOLS Button 9
- Plug & Play Feature 10

Channel Control

- Storing Channels 11
- Managing Channels 12

Picture Control

- Changing the Picture Settings 13
- Setting up the TV with your PC 15
- PC Display 16

Sound Control

- Changing the Sound Setting 17
- Selecting the Sound Mode 18

Function Description

- Configuring the Setup Menu 19
- Viewing the Picture in Picture (PIP) 20
- Setting the Time 21
- Source List / Edit Name 22

Media Play

- Using the Media Play Function 23
- Using the PHOTO (JPEG) List 25
- Using the Music (MP3) List 28
- Using the Setup Menu 29

About Anynet+

- Connecting Anynet+ Devices 30
- Setting Up Anynet+ 31
- Scanning and Switching between Anynet+ Devices 31
- Recording 32
- Listening through a Receiver (Home theater) 33
- Troubleshooting for Anynet+ 33

Recommendations for Use

- Teletext Feature 34
- Wall Mount Kit Specifications (VESA) 35
- Preparation before installing the Wall-Mount 36
- How to assemble the Stand-Base (depending on the model) 36
- Securing the TV to the Wall 37
- Securing the Installation Space 37
- Troubleshooting 38
- Specifications 39

Symbol	Press	Note	One-Touch Button	TOOLS

Connecting and Preparing Your TV

Checking Parts

Owner's Instructions

Remote Control/ AAA Batteries (2ea)

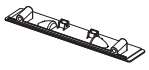
Power Cord

Cloth-Clean

Holder-Ring (4ea) (Refer to page 36)

Warranty Card/ Safety Guide Manual (Not available in all locations)

Cover-Bottom / Screws (2ea) (PS58B550 only)



Cover-Bottom (PS50B550 only)

Screw (4ea) (PS50B550 only)

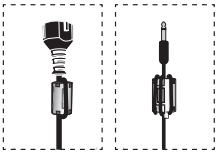
Ferrite Core for Power Cord

(Not available in all locations)

Ferrite Core for Headphone

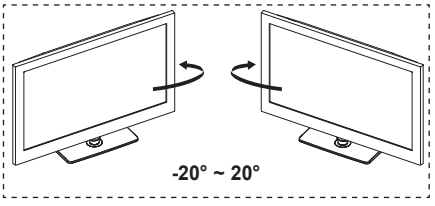
Holder-Wire Cable

Ferrite Core (Power Cord, Headphone)
The ferrite cores are used to shield the cables from interference.
When connecting a cable, open the ferrite core and clip it around the cable near the plug.



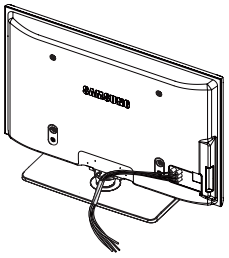
Using the Stand-Base

- Two or more people should carry the PDP. Never lay the PDP on the floor because of possible damage to the screen. Always keep the PDP upright.
- The PDP can rotate 20 degrees in right and left directions.

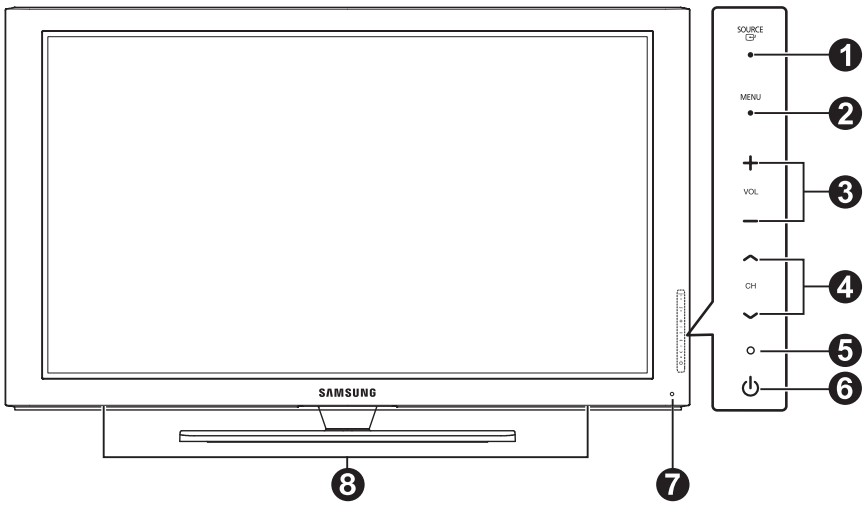


Assembling the Cables

Enclose the cables in the Holder-Wire Cable so that the cables are not visible through the transparent stand.



Viewing the Control Panel



The product colour and shape may vary depending on the model.

Front Panel buttons

Touch each button to operate.

❶ **SOURCE**
Toggles between all the available input sources (**TV**, **AV1**, **AV2**, **Component1**, **Component2**, **PC**, **HDMI1**, **HDMI2/DVI**, **HDMI3**, **HDMI4**).

In the on-screen menu, use this button as you would use the **ENTER** button on the remote control.

❷ **MENU**
Press to see an on-screen menu of your TV's features.

❸ **+ VOL -**
Press to increase or decrease the volume. In the on-screen menu, use the **+ VOL -** buttons as you would use the ◄ and ► buttons on the remote control.

❹ **∧ CH ∨**
Press to change channels. In the on-screen menu, use the **∧ CH ∨** buttons as you would use the ▲ and ▼ buttons on the remote control.

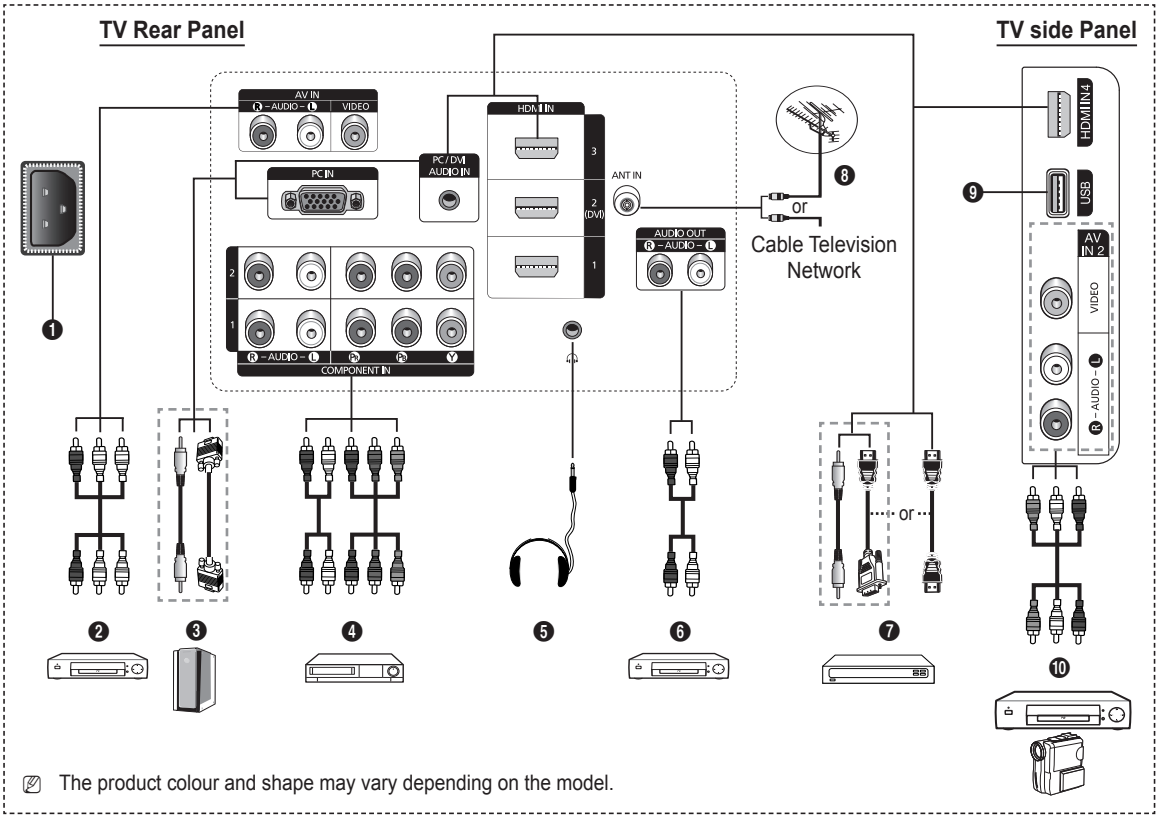
❺ **POWER INDICATOR**
Blinks and turns off when the power is on and lights up in stand-by mode.

❻ **⏻ (POWER)**
Press to turn the TV on and off.

❼ **REMOTE CONTROL SENSOR**
Aim the remote control towards this spot on the TV.

❽ **SPEAKERS**

Viewing the Connection Panel



The product colour and shape may vary depending on the model.

Whenever you connect an audio or video system to your set, ensure that all elements are switched off.

When connecting an external device, match the colour of the connection terminal to the cable.

1 POWER IN
Connect the supplied power cord.

2 AV IN (VIDEO / AUDIO R/L)
Video and audio inputs for external devices, such as a camcorder or VCR.

3 PC IN
Connect to the video output jack on your PC.

PC / DVI AUDIO IN
Connect to the audio output jack on your PC.

4 COMPONENT IN 1, 2
Audio (AUDIO R/L) and video (Y/PB/PR) inputs for Component.

5 HEADPHONES JACK
You can connect a set of headphones if you wish to watch a television programme without disturbing the other people in the room.

Prolonged use of headphones at a high volume may damage your hearing

6 AUDIO OUT(AUDIO R/L)
Connect RCA audio signals from the TV to an external source, such as Audio equipment.

7 HDMI IN 1, 2(DVI), 3, 4
- No additional Audio connection is needed for an HDMI to HDMI connection.
- Whenusing an HDMI/DVI cable connection, you must use the HDMI IN 2(DVI) jack.

What is HDMI?
- "High Definition Multimedia interface" allows the transmission of high definition digital video data and multiple channels of digital audio.
- The HDMI/DVI terminal supports DVI connection to an extended device with the appropriate cable (not supplied). The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi - channel digital audio.

PC / DVI AUDIO IN
DVI audio outputs for external devices.

8 ANT IN
75Ω Coaxial connector for Aerial/Cable Network.

9 USB
Connect a USB mass storage device to view photo files and play audio files.

10 AV IN 2 (VIDEO / AUDIO R/L)
Video and audio inputs for external devices, such as a camcorder or VCR.

Supported modes for HDMI/DVI and Component

	480i	480p	576i	576p	720p	1080i	1080p
HDMI/DVI 50Hz	X	X	X	O	O	O	O
HDMI/DVI 60Hz	X	O	X	X	O	O	O
Component	O	O	O	O	O	O	O

Remote Control

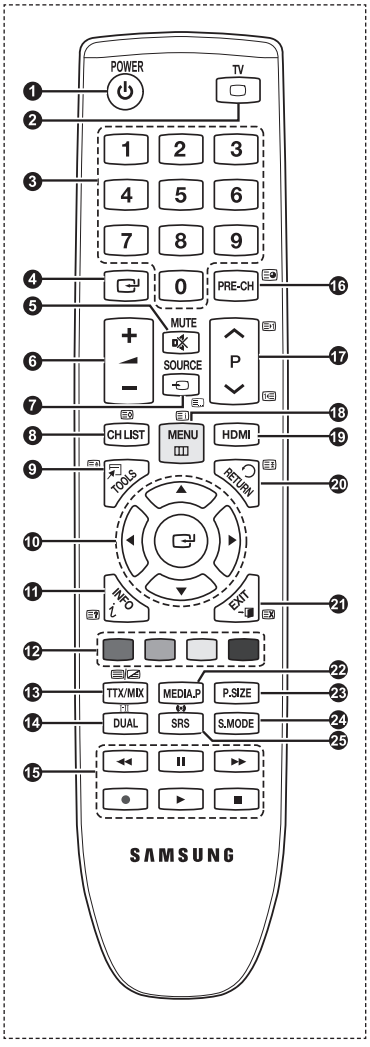
You can use the remote control up to a distance of about 23 feet from the TV.

The performance of the remote control may be affected by bright light.

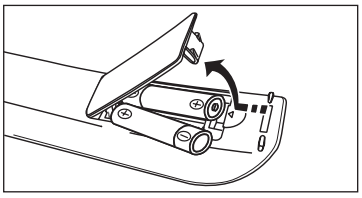
1. POWER button (turns the TV on and off)
2. Selects the TV mode directly.
3. Number buttons for direct channel access
4. Use to select on-screen menu items
5. Temporary sound switch-off
6. [+] Volume increase
   [−] Volume decrease
7. Available source selection
8. Channel control button
9. Use to quickly select frequently used functions.
10. Control the cursor in the menu
11. Use to see information on the current broadcast
12. Use these buttons in the, Media Play, etc.
13. Sound mode selection
14. Use these buttons in the Anynet+ and Media Play.
15. Previous channel
16. [^] Next channel
    [v] Previous channel
17. Displays the main on-screen menu
18. Selects the HDMI mode directly
19. Returns to the previous menu
20. Exit the on-screen menu
21. **MEDIA.P** (Media play)
    This function enables you to view and play photo and music files from an external device. (Refer to pages 25 (Photo) and 28 (Music))
22. Picture size selection
23. Press to select the sound mode.
24. Selects SRS TruSurround HD mode.

Teletext Functions

2. Exit from the teletext display (depending on the model)
7. Teletext mode selection (LIST/FLOF)
8. Teletext store
9. Teletext size
11. Teletext reveal
12. Fastext topic selection
13. Teletext display/mix both teletext information and the normal broadcast
16. Teletext sub page
17. P [^] :Teletext next page
    P [v] :Teletext previous page
18. Teletext index
20. Teletext hold
21. Teletext cancel



Installing Batteries in the Remote Control



1. Lift the cover at the back of the remote control upward as shown in the figure.
2. Install two AAA size batteries.
   - Make sure to match the '+' and '–' ends of the batteries with the diagram inside the compartment.
3. Close the cover.
   - Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.

- If the remote control doesn't work, check the following
  1. Is the TV power on?
  2. Are the plus and minus ends of the batteries reversed?
  3. Are the batteries drained?
  4. Is there a power outage or is the power cord unplugged?
  5. Is there a special fluorescent light or neon sign nearby?

Switching On and Off

The mains lead is attached to the rear of your set.

1. Plug the mains lead into an appropriate socket.
   - The standby indicator lights up on your set.
2. Press the **POWER**⏻ button on your set.
   - You also can press the **POWER**⏻ button or the **TV** button on the remote control to turn the TV on. The programme that you were watching last is reselected automatically.
3. Press the numeric button (0~9) or channel up / down (∧ / ∨) button on the remote control or ∧ **CH** ∨ button on your set.
   - When you switch the set on for the very first time, you will be asked to choose language in which the menus are to be displayed.
4. To switch your set off, press the **POWER**⏻ button again.

Placing Your Television in Standby Mode

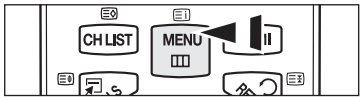
Your set can be placed in standby mode in order to reduce the power consumption. The standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

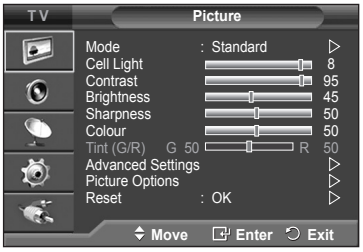
1. Press the **POWER**⏻ button on the remote control.
   - The screen is turned off and a red standby indicator appears on your set.
2. To switch your set back on, simply press the **POWER**⏻, numeric buttons (0~9), **TV** button or channel up / down (∧ / ∨) button again.
   - Do not leave your set in standby mode for long periods of time (when you are away on holiday, for example). It is best to unplug the set from the mains and aerial.

Viewing the Menus

1. With the power on, press the **MENU** button. The main menu appears on the screen. The menu's left side has icons: **Picture, Sound, Channel, Setup, Input**.
2. Press the ▲ or ▼ button to select one of the icons. Then press the **ENTER** button to access the icon's sub-menu.
3. Press the **EXIT** button to exit.

The on-screen menus disappear from the screen after about one minute.



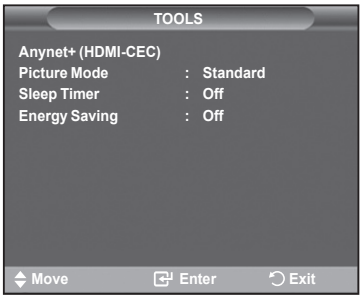


Using the TOOLS Button

You can use the **TOOLS** button to select your frequently used functions quickly and easily. The **TOOLS** menu changes depending on which external input mode you are viewing.

1. Press the **TOOLS** button. The **TOOLS** menu will appear.
2. Press the ▲ or ▼ button to select a menu, then press the **ENTER** button.
3. Press the ▲ / ▼ / ◄ / ► / **ENTER** buttons to display, change, or use the selected items. For a more detailed description of each function, refer to the corresponding page.

- Anynet+ (HDMI-CEC), see page 31
- Picture Mode, see page 13
- Sleep Timer, see page 21
- Energy Saving, see page 19
- PIP, see page 20
- Auto Adjustment, see page 15



Plug & Play Feature

When the TV is initially powered on, basic settings proceed automatically and subsequently.

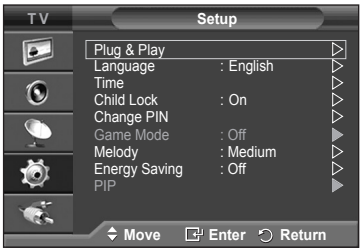
(Differs in each country)

- The Screen Saver is activated if there is no remote control key input for longer than 1 minute while Plug & Play is running.
- The Screen Saver is activated if there is no operating signal for longer than 15 minutes.

1. Press the **POWER** button on the remote control. **Menu Language** menu is displayed.
2. Select the appropriate language by pressing the ▲ or ▼ button. Press the **ENTER** button. The message **Select 'Home Use' when installing this TV in your home.** is displayed.
3. Press the ◄ or ► button to select **Store Demo** or **Home Use**, then the **ENTER** button.
   - We recommend setting the TV to **Home Use** mode for the best picture in your home environment.
   - **Store Demo** mode is only intended for use in retail environments.
   - If the unit is accidentally set to **Store Demo** mode and you want to return to **Home Use** (Standard): Press the Volume button on the TV. When the volume OSD is displayed, press and hold the **MENU** button on the TV for 5 seconds.
4. Make sure that the antenna is connected to the TV. Press the **ENTER** button. **Area** menu is displayed.
5. Select your country or area by pressing the ▲ or ▼ button, then press the **ENTER** button. Auto Store menu is displayed.
6. Press the **ENTER** button to start search the channels.
   The channel search will start automatically. After all the available channels are stored, **Clock Set** menu is automatically displayed.
   Press the **ENTER** button.
   - To stop the search before it has finished, press the **ENTER** button with **Stop** selected.
7. Press the ◄ or ► button to select **Month**, **Day**, **Year**, **Hour** or **Minute**. Set these by pressing the ▲ or ▼ button.
   - You can set the **Month**, **Day**, **Year**, **Hour**, and **Minute** directly by pressing the numeric buttons on the remote control.
8. Press the **ENTER** button to confirm your setting.
   The message **Enjoy your TV.** is displayed.
   When you have finished, press the **ENTER** button.

If you want to reset this feature...

1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Setup**, then press the **ENTER** button.
3. Press the **ENTER** button again to select **Plug & Play**.
   The message **Start Plug & Play** is displayed.



Channel Control

Storing Channels

❑ Area

You can change the desired area.

❑ Auto Store

Scans for all channels with active broadcast stations (and availability depends on your country) and stores them in the TV's memory.

❑ Manual Store

Scans for a channel manually and stores it in the TV's memory.

- **Programme** (Programme number to be assigned to a channel): Sets the programme number using the ▲, ▼ or number (0~9) buttons.
- **Colour System → Auto / PAL / SECAM / NTSC4.43 / NTSC3.58**: Sets the colour system value using the ▲ or ▼ button.
- **Sound System → BG / DK / I / M**: Sets the sound system value using the ▲ or ▼ button.
- **Channel** (When you know the number of the channel to be stored): Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel). Press the ► button, then press the ▲, ▼ or number (**0~9**) buttons to select the required number.

  ✎ You can also select the channel number directly by pressing the number (**0~9**) buttons.

  ✎ If there is abnormal sound or no sound, reselect the sound standard required.
- **Search** (When you do not know the channel numbers): Press the ▲ or ▼ button to start the search. The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen.
- **Store** (When you store the channel and associated programme number): Set to **OK** by pressing the **ENTER** button.

✎ Channel mode

- **P** (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to P99. You can select a channel by entering the position number in this mode.
- **C** (Air channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
- **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

❑ Fine Tune

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, you may have to fine tune the channel manually.

✎ Fine tuned channels that have been saved are marked with an asterisk *.

✎ If you do not store the fine-tuned channel in memory, adjustments are not saved.

✎ To reset the fine-tuning, select **Reset** by pressing the ▼ button and then press the **ENTER** button.

Managing Channels

Using the Channel Manager, you can conveniently add/delete or lock/unlock channels.

❑ Channel List

■ Adding / Deleting channels

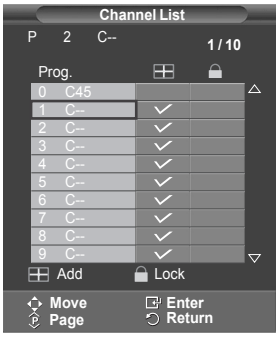
Using the Channel List, you can add or delete channels.

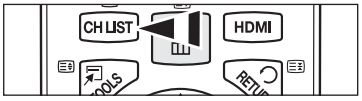
- Move to the (▭) field by pressing the ▲/▼/◄/► buttons, select a channel to be added, and press the **ENTER** button to add the channel.
- If you press the **ENTER** button again, the (✓) symbol next to the channel disappears and the channel is not added.

■ Locking / Unlocking channels

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio. This function is available only when the **Child Lock** is set to **on**. (see page 19)

- Move to the (🔒) field by pressing the ▲/▼/◄/► buttons, select a channel to be locked, and press the **ENTER** button.
- The PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is **0-0-0-0**. You can change the PIN, by selecting **Change PIN** from the menu.
- If you press the **ENTER** button again, the (✓) symbol next to the channel disappears and the channel lock is canceled.
- A blue screen is displayed when **Child Lock** is activated.
- You can select these options simply by pressing the **CH LIST** button on the remote control.





❑ Sort

This operation allows you to change the programme numbers of the stored channels. This operation may be necessary after using the auto store.

❑ Name

Channel names will be assigned automatically when channel information is broadcast. These names can be changed, allowing you to assign new names.

Picture Control

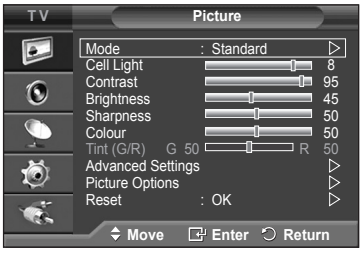
Changing the Picture Settings

❑ Mode

You can select the type of picture which best corresponds to your viewing requirements.

- **Dynamic**: Selects the picture for high-definition in a bright room.
- **Standard**: Selects the picture for the optimum display in a normal environment.
- **Movie**: Selects the picture for viewing movies in a dark room.

Press the **TOOLS** button to display **TOOLS** menu.
You can also set the picture mode by selecting **TOOLS** → **Picture Mode**.



❑ Cell Light / Contrast / Brightness / Sharpness / Colour / Tint (G/R)

Your television has several setting options that allow you to control the picture quality.

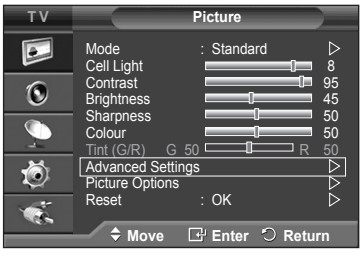
- **Cell Light**: Adjusts the pixel brightness.
- **Contrast**: Adjusts the contrast level of the picture.
- **Brightness**: Adjusts the brightness level of the picture.
- **Sharpness**: Adjusts the edge definition of the picture.
- **Colour**: Adjusts Colour saturation of the picture.
- **Tint (G/R)**: Adjusts the Colour tint of the picture.

Select a picture mode to be adjusted first. The adjusted values are saved for each picture mode.
When you make changes to **Cell Light**, **Contrast**, **Brightness**, **Sharpness**, **Colour** or **Tint (G/R)**, the OSD will be adjusted accordingly.
In TV, AV modes of the PAL system, you cannot use the Tint Function.
In **PC** mode, you can only make changes to **Cell Light**, **Contrast** and **Brightness**.
Settings can be adjusted and stored for each external device you have connected to an input of the TV.
The energy consumed during use can be significantly reduced if the level of brightness of the picture is reduced, and then this will reduce the overall running cost.

❑ Advanced Settings

You can adjust the Advanced Settings for your screen including the color and contrast.

Advanced Settings is available in **Standard** or **Movie** mode.
In **PC** mode, you can only make changes to **Dynamic Contrast**, **Gamma** and **White Balance** from among the **Advanced Settings** items.



Black Tone → Off / Dark / Darker / Darkest
You can select the black level on the screen to adjust the screen depth.

Dynamic Contrast → Off / Low / Medium / High
You can adjust the screen contrast so that the optimal contrast is provided.

Gamma
You can adjust the primary colour (Red, Green, Blue) Intensity.

Colour Space
Colour Space is a colour matrix composed of red, green and blue colours. Select your favourite colour space to experience the most natural colour.

- **Auto**: Automatically sets the color range depending on the input video source.
- **Native**: Sets the color range wider than the that of the input video source.

White Balance
You can adjust the colour temperature for more natural picture colours.

- **R-Offset / G-Offset / B-Offset / R-Gain / G-Gain / B-Gain**: Changing the adjustment value will refresh the adjusted screen.
- **Reset**: The previously adjusted white balance will be reset to the factory defaults.

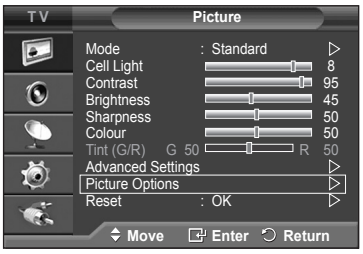
Flesh Tone
You can adjust the flesh tone to be more or less red.
Changing the adjustment value will refresh the adjusted screen.

Edge Enhancement → Off / On
You can emphasize object boundaries in the picture.

Continued...

❑ Picture Options

You can customize the additional picture settings to suit your preference.



✎ In **PC** mode, you can only make changes to the **Colour Tone, Size,** and **Screen Burn Protection** from among the items in **Picture Options**.

■ **Colour Tone → Cool / Normal / Warm1 / Warm2**

You can select the most comfortable colour tone to your eyes.

✎ The adjusted values are stored according to the selected **Picture** mode.

✎ **Warm1** or **Warm2** is only activated when the picture mode is **Movie**.

■ **Size**

You can select the picture size which best corresponds to your viewing requirements.

- **16:9**: Adjusts the picture size to 16:9 appropriate for DVDs or wide broadcasting.
- **Wide Zoom**: Magnify the size of the picture more than 4:3.
- **Zoom**: Magnifies the 16:9 wide picture (in the vertical direction) to fit the screen size.
- **4:3**: This is the default setting for a video movie or normal broadcasting.
- **Screen Fit**: Use the function to see the full image without any cutoff when **HDMI** (720p / 1080i / 1080p) or **Component** (1080i / 1080p) signals are input.

✎ The picture size options may vary depending on the input source.

✎ The items available may differ depending on the selected mode.

✎ In **PC** Mode, only **16:9** and **4:3** mode can be adjusted.

✎ Settings can be adjusted and stored for each external device you have connected to an input of the TV.

✎ Temporary image retention may occur when viewing a static image on the set for more than two hours.

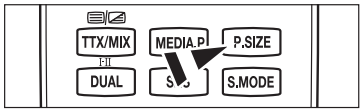
✎ **Wide Zoom**: Press the ► button to select , then press the **ENTER** button. Press the ▲ or ▼ button to move the screen up / down. Then press the **ENTER** button.

✎ **Zoom**: Press the ► button to select , then press the **ENTER** button. Press the ▲ or ▼ button to move the picture up and down. Then press the **ENTER** button. Press the ► button to select , then press the **ENTER** button. Press the ▲ or ▼ button to magnify or reduce the picture size in the vertical direction. Then press the **ENTER** button.

✎ After selecting **Screen Fit** in **HDMI** (1080i / 1080p) or **Component** (1080i / 1080p) mode: Select **Position** by pressing the ◄ or ►button. Use the ▲, ▼, ◄ or ► button to move the picture.

✎ **Reset**: Press the ◄ or ► button to select **Reset**, then press the **ENTER** button. You can initialize the setting.

✎ You can select these options simply by pressing the **P.SIZE** button on the remote control.



■ **Digital NR → Off / Low / Medium / High / Auto**

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

✎ When the signal is weak, select one of the other options until the best picture is displayed.

✎ This function is not available in **PC** mode.

■ **HDMI Black Level → Normal / Low**

You can directly select the black level on the screen to adjust the screen depth.

✎ This function is active only when the external input connects to HDMI (RGB signals).

■ **Film Mode**

You can optimize the picture mode for watching movies.

- **Off** : Turn the Film Mode function off.
- **Auto**: Automatically adjusts the picture for the best quality when watching a film.

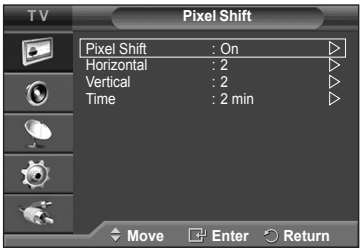
✎ Film mode is supported in TV, Video, Component(480i / 1080i) and HDMI(1080i).

Continued...

■ **Screen Burn Protection**

Configures the Screen Burn Protection Options to prevent and reduce pixel burn.

When an image remains in one position too long, it may cause a permanent burn on the screen.



- **Pixel Shift**: To reduce the possibility of screen burn, this unit is equipped with screen burn prevention technology. This technology enables you to set picture movement up/down (Vertical) and side to side (Horizontal). The Time setting allows you to program the time between movement of the picture in minutes.
  - Set **Pixel Shift** to On by pressing the ▲ or ▼ button, then press the **ENTER** button.
  - Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** button.
  - Available options: **Horizontal, Vertical, Time**.
  - Optimum condition for pixel shift

	Item	TV/AV/Component/HDMI/PC
Horizontal	0~4	2
Vertical	0~4	2
Time (min)	1~4 min	2 min

  - The Pixel Shift value may differ depending on the monitor size (inches) and mode.
  - This function is not available in the **Screen Fit** mode.
- **Scrolling**: This function helps remove after images on the screen by moving all the pixels on the PDP according to a pattern Use this function when there are remaining after images or symbols on the screen especially when you displayed a still image on the screen for a long time.
- **Side Grey**: When you watch TV with the screen ratio of 4:3, the screen is prevented from any damage by adjusting the white balance on both extreme left and right sides.
  - **Dark**: When you set the screen ratio to 4:3, it darkens the left and right sides.
  - **Light**: When you set the screen ratio to 4:3, it brightens the left and right sides.

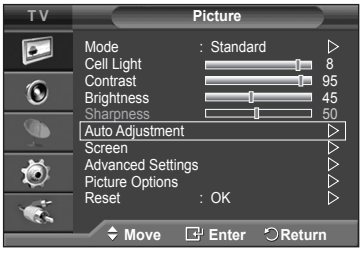
❑ Reset → OK / Cancel

Resets all picture settings to the default values.

- Select a picture mode to be reset. The reset is performed for each picture mode.

Setting up the TV with your PC

- Preset: Press the **SOURCE** button to select **PC** mode.



❑ Auto Adjustment

Auto Adjustment allows the PC screen of set to self-adjust to the incoming PC video signal. The values of fine, coarse and position are adjusted automatically.

- This function does not work in DVI-HDMI mode.

Press the **TOOLS** button to display **TOOLS** menu.
You can also set the adjustment by selecting **TOOLS** → **Auto Adjustment**.

❑ Screen

The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (Coarse) and Fine-tune again. After the noise has been reduced, readjust the picture so that it is aligned on the center of screen.

■ **Coarse**

Adjusts the frequency when vertical noise appears on the screen.

■ **Fine**

Adjusts the screen to be clearer.

■ **PC Position**

Adjust the PC's screen positioning if it does not fit the TV screen. Press the ▲ or ▼ button to adjusting the Vertical-Position. Press the ◄ or ► button to adjust the Horizontal-Position.

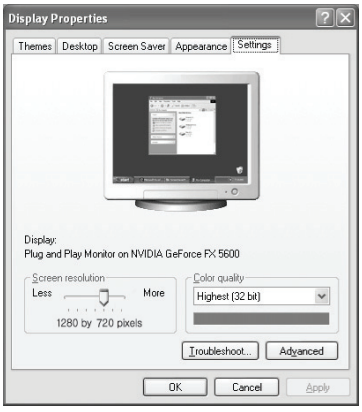
■ **Image Reset**

You can replace all image settings with the factory default values.

PC Display

❑ Setting Up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will apply in almost all cases.
(If not, contact your computer manufacturer or Samsung Dealer.)



1. First, click on 'Control Panel' on the Windows start menu.
2. When the control panel window appears, click on 'Appearance and Themes' and a display dialog-box will appear.
3. When the control panel window appears, click on 'Display' and a display dialog-box will appear.
4. Navigate to the 'Settings' tab on the display dialog-box.

   The correct size setting (resolution)

   Optimum: 1920x1080

   If a vertical-frequency option exists on your display settings dialog box, the correct value is '60' or '60 Hz'. Otherwise, just click 'OK' and exit the dialog box.

❑ Display Modes

Both screen position and size will vary depending on the type of PC monitor and its resolution.
The resolutions in the table are recommended.

D-Sub and HDMI/DVI Input

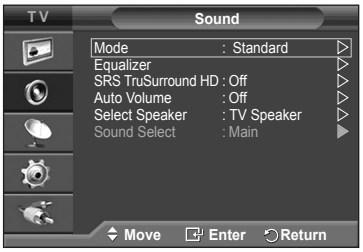
Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
IBM	640 x 350	31.469	70.086	25.175	+ / -
	720 x 400	31.469	70.087	28.322	- / +
MAC	640 x 480	35.000	66.667	30.240	- / -
	832 x 624	49.726	74.551	57.284	- / -
	1152 x 870	68.681	75.062	100.000	- / +
VESA CVT	720 x 576	35.910	59.950	32.750	- / +
	1152 x 864	53.783	59.959	81.750	- / +
	1280 x 720	44.772	59.855	74.500	- / +
	1280 x 720	56.456	74.777	95.750	- / +
	1280 x 960	75.231	74.857	130.000	- / +
VESA DMT	640 x 480	31.469	59.940	25.175	- / -
	640 x 480	37.861	72.809	31.500	- / -
	640 x 480	37.500	75.000	31.500	- / -
	800 x 600	37.879	60.317	40.000	+ / +
	800 x 600	48.077	72.188	50.000	+ / +
	800 x 600	46.875	75.000	49.500	+ / +
	1024 x 768	48.363	60.004	65.000	- / -
	1024 x 768	56.476	70.069	75.000	- / -
	1024 x 768	60.023	75.029	78.750	+ / +
	1152 x 864	67.500	75.000	108.000	+ / +
	1280 x 800	49.702	59.810	83.500	- / +
	1280 x 800	62.795	74.934	106.500	- / +
	1280 x 960	60.000	60.000	108.000	+ / +
	1280 x 1024	63.981	60.020	108.000	+ / +
	1280 x 1024	79.976	75.025	135.000	+ / +
	1360 x 768	47.712	60.015	85.500	+ / +
	1440 x 900	55.935	59.887	106.500	- / +
	1440 x 900	70.635	74.984	136.750	- / +
	1680 x 1050	65.290	59.954	146.250	- / +
VESA GTF	1280 x 720	52.500	70.000	89.040	- / +
	1280 x 1024	74.620	70.000	128.943	- / -
VESA DMT / DTV CEA	1920 x 1080p	67.500	60.000	148.500	+ / +

- When using an HDMI/DVI cable connection, you must use the **HDMI IN 2(DVI)** jack.
- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.

Sound Control

Changing the Sound Setting

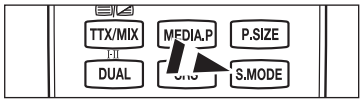
❑ Mode



You can select the type of special sound effect to be used when watching a given broadcast.

- **Standard**: Selects the normal sound mode.
- **Music**: Emphasizes music over voices.
- **Movie**: Provides the best sound for movies.
- **Clear Voice**: Emphasizes voice over other sounds.
- **Custom**: Recalls your customized sound settings. (see Customizing the Sound)

You can select these options simply by pressing the **S.MODE** button on the remote control.



❑ Equalizer

The sound settings can be adjusted to suit your personal preferences.

- **Balance**: Controls the balance between the right and left speakers.
- **100Hz** / **300Hz** / **1KHz** / **3KHz** / **10KHz** (Bandwidth Adjustment): To adjust the level of different bandwidth frequencies

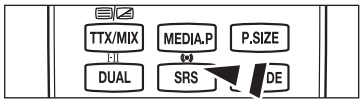
❑ SRS TruSurround HD → Off / On

SRS TruSurround HD is the combined technology of TruSurround and FOCUS, TruBass.

SRS TruSurround HD is down mixing technology that makes the Surround Sound effect of virtual 5.1 channel via two speakers. This function provide not only rich deep bass at a low-pitched sound but also improve the resolution at a high-pitched sound.

If the sound is abnormal while TV is playing music, please adjust the equalizer and **SRS TruSurround HD** (**Off**/**On**).

You can select these options simply by pressing the **SRS** button on the remote control.



TruSurround HD, SRS and the (●) symbol are trademarks of SRS Labs, Inc.
TruSurround HD technology is incorporated under license from SRS Labs, Inc.

❑ Auto Volume → Off / On

Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

❑ Select Speaker → External Speaker / TV Speaker

If you want to hear the sound through separate speakers, cancel the internal amplifier.

The **–** **+**, **MUTE** buttons do not operate when the **Select Speaker** is set to **External Speaker**.

If you select **External Speaker** in the **Select Speaker** menu, the sound settings will be limited.

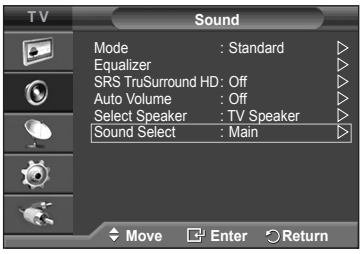
	TV's Internal Speakers	Audio Out (L / R Out) to Sound System
	TV / AV / Component / PC / HDMI	TV / AV / Component / PC / HDMI
TV Speaker	Speaker Output	Sound Output
External Speaker	Mute	Sound Output
Video No Signal	Mute	Mute

Continued...

❑ Sound Select

When the PIP feature is activated, you can listen to the sound of the sub (PIP) picture.

- **Main:** Use to listen to the sound of the main picture.
- **Sub**: Used to listen to the sound of the sub picture.

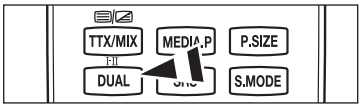


Selecting the Sound Mode

The **DUAL** button displays/controls the processing and output of the audio signal. When power is switched on, the mode is automatically preset to either **DUAL-I** or **Stereo**, depending on the current transmission.

	Type of broadcast	On-screen indication		
NICAM Stereo	Regular broadcast (Standard audio)	**Mono** (Normal use)		
	Regular + NICAM Mono	**NICAM**	⟷	**Mono** (Normal)
	NICAM-Stereo	**NICAM Stereo**	⟷	**Mono** (Normal)
	NICAM Dual-I/II	**NICAM Dual-1**	→ **NICAM Dual-2** →	**Mono** (Normal)
A2 Stereo	Regular broadcast (Standard audio)	**Mono** (Normal use)		
	Bilingual or DUAL-I/II	**Dual I**	⟷	**Dual II**
	Stereo	**Stereo**	⟷	**Mono** (Forced mono)

- If the stereo signal is weak and an automatic switching occurs, then switch to the mono.
- This function is only activated in stereo sound signal. It is deactivated in mono sound signal.
- This function is only available in **TV** mode.
- You can select these options simply by pressing the **DUAL** button on the remote control.

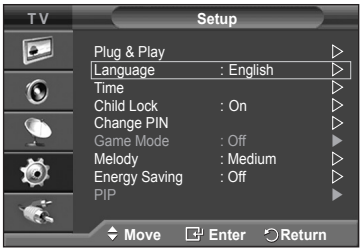


Function Description

Configuring the Setup Menu

❑ Language

It is variable depending on the model. When you start using the television for the first time, you must select the language which will be used for displaying menus and indications.



❑ Child Lock → Off / On

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio.

- Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is '0-0-0-0'. You can change the PIN by selecting **Change PIN** from the menu.
- You can lock some channels in Channel List. (refer to page 19)
- **Child Lock** is available only in TV mode. .

❑ Change PIN

You can change your personal ID number that is required to set up the TV.

- Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is '0-0-0-0'.
- If you forget the PIN code, press the remote control buttons in the following sequence, which resets the PIN to '0-0-0-0': **POWER** (Off), **MUTE, 8, 2, 4, POWER** (On).

❑ Game Mode

When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting the game menu.

When the Game Mode is On

- **Picture Mode** is automatically changed to **Standard** and users cannot change the mode.
- **Sound Mode** is automatically changed to **Custom** and users cannot change the mode. Adjust the sound using the equalizer.
- The Reset in the Sound menu is activated. Reset function initializes the Equalizer settings to the factory default setting.

- **Game Mode** is not available in regular TV mode or **Game Mode** set to **Off**.
- If the picture is poor when external device is connected to TV, check if Game Mode is On.
- This function supports only game function.
- If you display the TV menu in Game mode, the screen shakes slightly.
- The mark (🎮) appears on the screen which means that Game Mode is on with the selected source.
- Game mode is not available in PC mode.

❑ Melody → Off / Low / Medium / High

The TV power on / off melody sound can be adjusted.

- **The Melody does not play**
  - When no sound is output from the TV because the **MUTE** button has been pressed.
  - When no sound is output from the TV because the – (Volume) button has been pressed.
  - When the TV is turned off by **Sleep Timer** function.

❑ Energy Saving

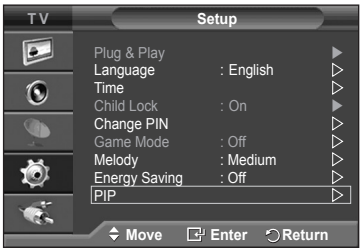
This feature adjusts the brightness of the TV in order to reduce power consumption. When watching TV at night, set the **Energy Saving** mode option to **High** to reduce eye fatigue as well as power consumption.

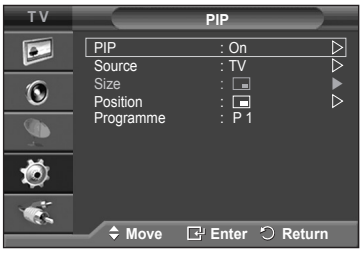
- **Off**: Turns off the energy saving function.
- **Low**: Sets the TV to low energy saving mode.
- **Medium**: Sets the TV to medium energy saving mode.
- **High**: Sets the TV to high energy saving mode.

Press the **TOOLS** button to display **TOOLS** menu.
You can also set the Energy Saving option by selecting **TOOLS** → **Energy Saving**.

Viewing the Picture in Picture (PIP)

You can display a sub picture within the main picture of set programme me or video input. In this way, you can watch the picture of set programme me or video input from any connected equipment while watching the main picture.





You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.

Press the **TOOLS** button to display **TOOLS** menu. You can also configure PIP related settings by selecting **TOOLS** → **PIP**.

❑ PIP → On / Off

You can activate or deactivate the PIP function.

Main picture	Sub picture
Component1, Component2	TV, AV1, AV2
HDMI1, HDMI2/DVI, HDMI3, HDMI4	
PC	

- **Source → TV / AV1 / AV2**

  You can select a source of the sub-picture.

  You can select these options simply by pressing the **SOURCE** button on the remote control.

- **Size →** ▣ **/** ▣▣ **/** ▣▣

  You can select a size of the sub-picture.

  If main picture is in **PC** and **Component** mode, **Size** is not available.

- **Position →** ▣ **/** ▣ **/** ▣ **/** ▣

  You can select a position of the sub-picture.

  In Double (▣▣ , ▣▣) mode, Position cannot be selected.

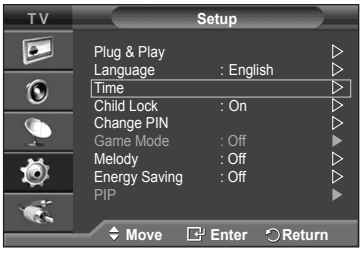
- **Programme**

  You can select a channel of the sub-picture only when the **Source** is set to **TV**.

Setting the Time

Setting the clock is necessary in order to use the various timer features of the TV.

- The current time will appear every time you press the **INFO** button.
- If you disconnect the power cord, you have to set the clock again.



❑ Clock Set

You can set the current time manually.

- You can set the **Month, Day, Year, Hour, Minute** directly by pressing the number buttons on the remote control.

❑ Sleep Timer

→ Off / 30 min / 60 min / 90 min / 120 min / 150 min / 180 min

The sleep timer automatically shuts off the TV after a preset time.

- The TV automatically switches to standby mode when the timer reaches 0.
- To cancel the **Sleep Timer** function, select **Off**.

> Press the **TOOLS** button to display **TOOLS** menu.
> You can also set the sleep timer by selecting **TOOLS** → **Sleep Timer**.

❑ Timer 1 / Timer 2 / Timer 3

Three different on / off timer settings can be made.

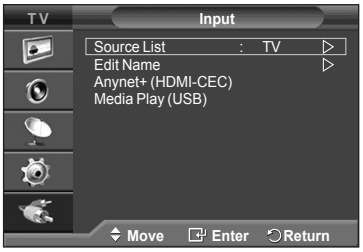
- **On Time**: Set the hour, minute, and Activate/Inactivate.
  (To activate timer with the setting you've chosen, set to Activate.)
- **Off Time**: Set the hour, minute, and Activate/Inactivate.
  (To activate timer with the setting you've chosen, set to Activate.)
- **Repeat**: Select **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, or**Sat~Sun**.
- **Volume**: Set the required volume level.
- **Programme :** When the On Time is active, you can turn on a specific channel.

  - You must set the clock first.
  - You can set the hour, minute and programme by pressing the number buttons on the remote control.
  - **Auto Power Off**
    When you set the timer On, the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by the timer. This function is only available in timer On mode and prevents overheating, which may occur if a TV is on for too long time.

Source List / Edit Name

❑ Source List

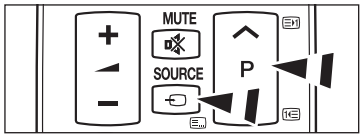
Use to select TV or other external input sources such as DVD players or Cable Box / Satellite receivers (Set-Top Box) connected to the TV. Use to select the input source of your choice.



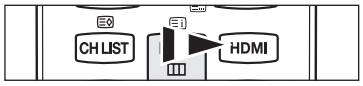
- **TV**, **AV1**, **AV2**, **Component1**, **Component2**, **PC**, **HDMI1**, **HDMI2/DVI**, **HDMI3**, **HDMI4**.

  ✎ You can choose only those external devices that are connected to the TV.

  ✎ Press the **SOURCE** button on the remote control to select the connected equipments. TV mode can be selected by pressing the **TV** button, number buttons (**0~9**), and the **P** ∧ / ∨ button on the remote control.



  ✎ You can also watch HDMI mode simply by pressing the **HDMI** button on the remote control.



❑ Edit Name

- **VCR** / **DVD** / **Cable STB** / **Satellite STB** / **PVR STB** / **AV Receiver** / **Game** / **Camcorder** / **PC** / **DVI PC** / **DVI** / **TV** / **IPTV** / **Blu-Ray** / **HD DVD** / **DMA**

  You can name the device connected to the input jacks to make your input source selection easier.

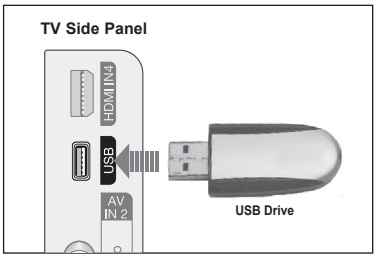
  ✎ When a PC with a resolution of 1920x1080@60Hz is connected to the **HDMI IN 2(DVI)** port, you should set the **HDMI2/DVI** mode to **PC** in the **Edit Name** of the **Input** mode.

  ✎ When connecting an HDMI/DVI cable to the **HDMI IN 2(DVI)** port, you should set the **HDMI2/DVI** mode to **DVI** or **DVI PC** in the **Edit Name** of the **Input** mode. In this case, a separate sound connection is required.

Media Play

Using the Media Play Function

This function enables you to view and listen to photo (JPEG) and audio files (MP3) saved on a USB Mass Storage Class (MSC) device.



1. Press the **POWER** button on the remote control or front panel.
   - The TV is powered on.
2. Connect a USB device containing JPEG and/or MP3 files to the USB jack on the side of the TV.

- If you enter the Media Play mode with no USB device connected the message **There is no device connected.** will appear. In this case, insert the USB device, exit the screen by pressing the **MEDIA.P** button on the remote control and enter the Media Play screen again.
- PTP(Picture Transfer Protocol) is supported, but MTP(Media Transfer Protocol) is not supported.
- The file system only supports FAT16/32 (The NTFS file system is not supported).
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- Media Play only supports USB Mass Storage Class devices (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers (Both USB HDD and HUB are not supported.)
- Please connect directly to the USB port of your TV. If you are using a separate cable connection, there may be a USB Compatibility problem.
- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss. Recommended image resolution for Media Play is 6 mega pixels.
- Do not disconnect the USB device while it is loading.
- MSC supports MP3 and JPEG files, and the PTP device supports JPEG files only.
- We recommend the sequential jpeg format. Progressive jpeg uses a lot of memory and decoding may fail.
- The Media Play mp3 format only supports music files with a high sampling frequency (32 kHz, 44.1 kHz, or 48 kHz).
- The playing duration of an mp3 file may be displayed as '00:00:00' if its playing time information is not found at the start of the file.
- If the horizontal resolution of an image is higher than 5000, it cannot be decoded.
- If the vertical resolution of an image is higher than 4000, it cannot be decoded.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360x8640 pixels
- For unsupported or corrupted files, the Not Supported File Format message is displayed
- The Photo or Music List displays up to 300 folders or files.
- MP3 files with DRM downloaded from pay sites are not played.
- DRM can prevent illegal uses of digital media to protect its copyright and it encompasses any scheme to control contents which range from making contents to contributing and managing. (ex. payment support)

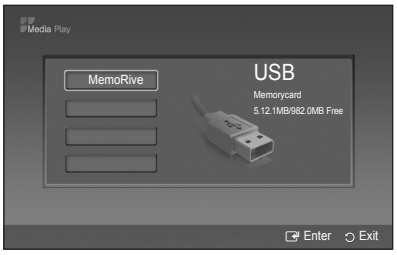
Continued...

❑ Using the Remote Control Button in Media Play Menu

Button	Operations
	Move the cursor and select an item.
	Select the currently selected item. During a Slide Show or Music Play: - Pressing the **ENTER** button during play pauses the play. - Pressing the **ENTER** button during pause resumes the play.
	Play or pause the Slide Show or Music file.
	Return to the previous menu.
	Run various functions from the Photo and Music menus.
	Stop the current Slide Show or Music file.
	Page Up or Down (file list item)
	Stop the current function and return to the **Media Play** main menu.

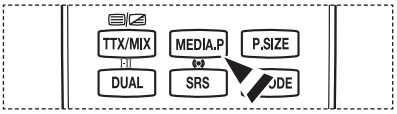
❑ Using the Media Play Menu

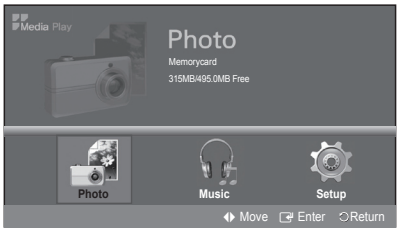
1. Press the MENU button. Press the ▲ or ▼ button to select **Input**, then press the **ENTER** button.
2. Press the ▲ or ▼ button to select **Media Play (USB)**, then press the **ENTER** button.
   - The **Media Play** menu is displayed.



- Press the **MEDIA.P** button on the remote control to display the Media Play menu.

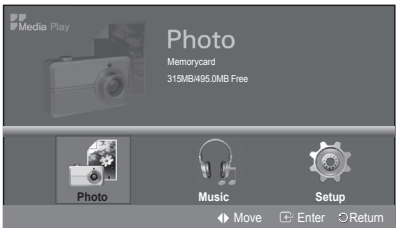
3. Press the ▲ or ▼ button to select the corresponding USB Memory Device, then press the **ENTER** button.
   - The **Media Play** menu differs depending on the USB Memory Device connected to TV.
   - Some devices may not be supported due to compatibility problems.
4. Press the ◄ or ► button to select an icon (**Photo, Music, Setup**), then press the **ENTER** button.
   - To exit **Media Play** mode, press the **MEDIA.P** button on the remote control.



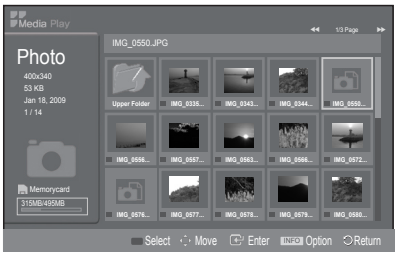


Using the PHOTO (JPEG) List

This menu shows JPEG files and folders saved on an USB memory device.



1. Complete Steps 1 to 2 of **Using the Media Play Menu**. (Refer to page 24)
2. Press the ◄ or ► button to move to **Photo**, then press the **ENTER** button. The saved file information is displayed as a folder or file.
3. Press the ▲, ▼, ◄ and ► buttons to select a file.
   - Pressing the **ENTER** button over a photo icon shows the currently selected photo in full screen.
   - Pressing the **ENTER** button over a folder icon shows the JPEG files included in the folder.



- To exit **Media Play** mode, press the **MEDIA.P** button on the remote control.
- Moving to a photo may take a few seconds to load the file. At this point, the icon will appear at the top left of the screen.
- It takes time to show JPEG files as Thumbnail images.
- This menu only shows files whose file extension is jpg. Files of other formats such as bmp or tiff will not be displayed.
- The files are displayed on a page. 15 thumbnail photos are displayed per page.
- The thumbnails are numbered from left to right and from top to bottom, from 1 to 15.
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- Folders are displayed first and they are followed by all JPEG files in the current folder.
- The folders and MP3 files appear in the order of the time they were saved to the USB memory device.
- The folders and JPEG files appear in the order of the time they were saved to the USB memory device.
- If the photo is displayed in full screen, you can zoom in and out or rotate the photo on the screen.
- While a full screen is displayed, ◄ or ► button will let you see another photo image in the same folder.
- Press the ▶ button when a Photo icon is selected to start a Slide Show.
- Photos without EXIT information may not be displayed as thumbnail images in the PHOTO LIST depending on the picture quality and resolution.

❑ Viewing a Slide Show

4. Press the **INFO** button to display the option (**Start Slide Show, Select All**).
5. Press the ▲ or ▼ button to select **Start Slide Show** then press the **ENTER** button.
   - During the slide show, files are displayed in order from the currently shown file.
   - MP3 files can be automatically played during the Slide Show if the Default **Background Music** is set to **On**.
     To enable this function, MP3 files and other photo files must be located in the same folder on the USB Memory Device.

6. Press the **INFO** button during the slide show to set the following options (**Slide Show Speed**, **Background Music**, **Background Music Setting**, **List**).
   Press the ▲ or ▼ button to select the option, then press the **ENTER** button.
   - After setting the option, press the **ENTER** button to make a change.

Continued...

❑ Using the Menu during a Slide Show

Slide Show Speed

Select to control the slide show speed.
Press the ▲ or ▼ button to select the required option(**Fast, Normal, Slow**), then press the **ENTER**↵ button.

Background Music

Select to choose whether you want to play an MP3 file during a slide show.
Press the ▲ or ▼ button to select the required option(**Off**, **On**), then press the **ENTER**↵ button.

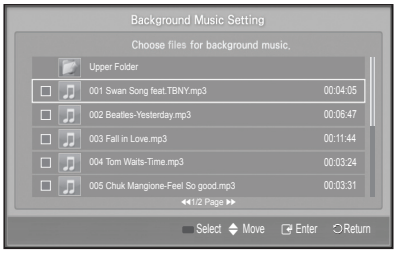
Background Music Setting

While the slide show is in progress, MP3 files and folders under the same directory are displayed.

Select a folder using the ▲ or ▼ button and press the **ENTER**↵ button.

Press the **ENTER**↵ button again to return to the slide show screen. The selected background music is played.

✎ If you turn **Off** the **Background Music**, even if the **Background Music Setting** have been set up, the background music will not be played.



List

The file information is displayed as a folder or JPEG file.

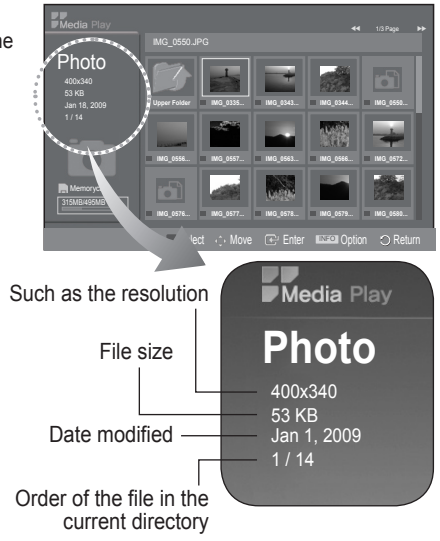
✎ To exit **Media Play** mode, press the **MEDIA.P** button on the remote control.

✎ When selecting a photo file, the photo file information is displayed on the left side of the TV screen, such as the resolution, the date modified and the order of the file in the current directory (e.g. 10th out of 15).

: Folder icon

: Photo icon

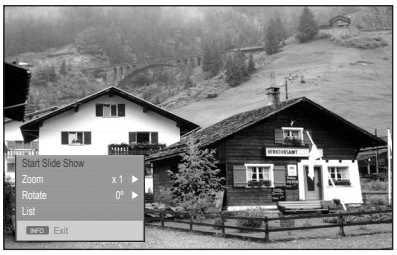
: Move to the previous folder stage icon



Continued...

❑ Using the Option Menu

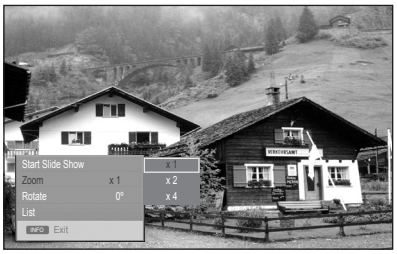
1. Complete Steps 1 to 2 of **Using the Media Play Menu**. (Refer to page 24)
2. Press the ◄ or ► button to move to **Photo**, then press the **ENTER** button. The saved file information is displayed as a folder or file.
3. Press the ▲, ▼, ◄ and ► button to select a file, then press the **ENTER** button. Pressing the button over a photo thumbnail displays the photo in full screen.
4. Press the **INFO** button to display the option (**Start Slide Show**, **Zoom**, **Rotate**, **List**)



Zoom

- Press the ▲ or ▼ button to select **Zoom**, then press the **ENTER** button.
- Each time the ▲ or ▼ button is pressed, the photo size increases. (**x 1** → **x 2** → **x 4**)
  - **x 1** : Restore a photo to its original size.
  - **x 2** : Zoom-in to a photo x 2.
  - **x 4** : Zoom-in to a photo x 4.
- To pan up/down/left/right in the zoomed-in photo, press the **INFO** button to remove option menu, then press the ▲, ▼, ◄ and ► buttons.

The **Start Slide Show**, **Rotate** option is disabled when the **Zoom** option is selected.

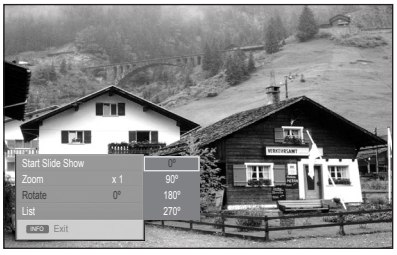


Rotate

- Press the ▲ or ▼ button to select Rotate, then press the **ENTER** button.
- Each time the ▲ or ▼ button is pressed, the photo rotates repeatedly.
  - **0º** : This rotates a photo to its original position
  - **90º** : This rotates a photo by 90 degrees
  - **180º** : This rotates a photo by 180 degrees
  - **270º** : This rotates a photo by 270 degrees

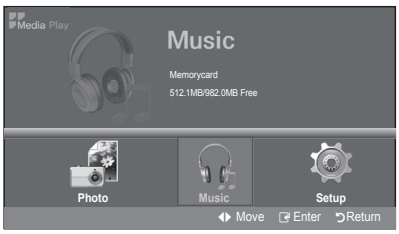
The rotated file is not saved.

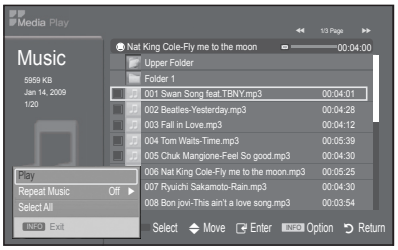
The **Start Slide Show, Zoom** option is disabled when the **Rotate** option is selected.



Using the Music (MP3) List

This menu shows MP3 files from among the files saved on a USB memory device.





1. Complete Steps 1 to 2 of **Using the Media Play Menu**. (Refer to page 24)
2. Press the ◄ or ► button to move to **Music**, then press the **ENTER** button. The saved file information is displayed as a folder or file.
3. Press the ▲ or ▼ button to move to an icon, then press the **ENTER** button.
   - Pressing the **ENTER** button over a musical note icon immediately plays the music file.
   - Pressing the **ENTER** button over a folder icon shows the music files included in the folder.
   - To select a file on the next page, press the ◄◄ or ►► button to move to the next or previous page.
4. To select all files or a file, press the **INFO** button to display the Music menus. Press the **ENTER** button to select **Play**, **Repeat Music** or **Select All**. To exit **Media Play** mode, press the **MEDIA.P** button on the remote control.

❑ Using the Option Menu

- **Play**

  Select to play MP3 files.
  - Press the ■" button while playing an MP3 file to pause the file.
  - Press the ■ button to exit Play mode.
  - This menu only shows files with the MP3 file extension. Files with other file extensions are not displayed, even if they are saved on the same USB device.
  - The selected file is displayed on the top with its playing time.
  - To adjust the music volume, press the **VOL** + or **VOL** − button on the remote control. To mute the sound, press the **MUTE** button on the remote control.
  - Press ◄◄ or ►► buttons to change pages.

- **Repeat Music**

  Select to repeatedly play MP3 files in the current folder.
  You can select **Off** or **On**.

: Folder icon

: Music list icon

: Move to the previous folder stage icon

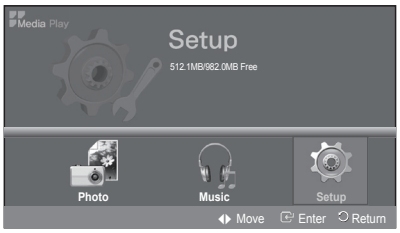
Music function information icon	
Icon	**Function**
	When all music files in the folder (or the selected file) are repeated. **Repeat Music** is **On**.
	When all music files in the folder (or the selected file) are played once. **Repeat Music** is **Off**.
	When pressing the **PLAY/PAUSE** button on the remote control while music is playing.
	When pressing the **STOP** button on the remote control, the music stops.

Using the Setup Menu

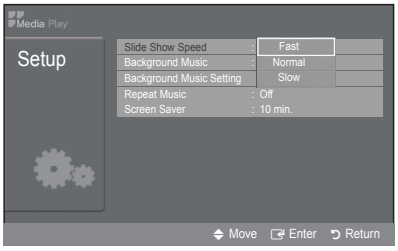
Setup displays the user settings of the Media Play menu.

1. Complete Steps 1 to 2 of **Using the Media Play Menu**. (Refer to page 24)
2. Press the ◄ or ► button to move to **Setup**, then press the **ENTER** button.
3. Press the ▲ or ▼ button to select an item you want, then press the **ENTER** button.
   (**Slide Show Speed**, **Background Music**, **Background Music Setting**, **Repeat Music**, **Screen Saver**)
4. Press the ▲ or ▼ button to select the option, then press the **ENTER** button.

   To exit **Media Play** mode, press the **MEDIA.P** button on the remote control.

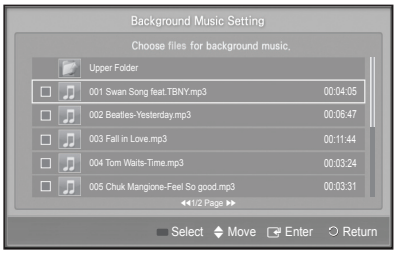


- **Slide Show Speed**
  Select to control the slide show speed.
  You can select **Fast**, **Normal,** or **Slow**.



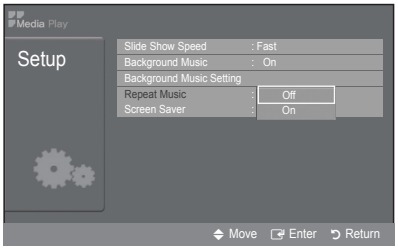
- **Background Music**
  Select to determine whether to play an MP3 file during a slide show.
  You can select Music **Off** or Music **On**.

- **Background Music Setting**
  While a slide show is in progress, use the **Background Music Setting** to select a music file to listen to.
  Select a MP3 file as the background music.



- **Repeat Music**
  Select to determine whether to repeat playing the music when all MP3 files in the current folder have been played.
  You can select **Off** or **On**.

- **Screen Saver**
  Select to set the waiting time before the screen saver appears.
  The screensaver will appear when no button is pressed for 10, 20 minutes or 1 hour.

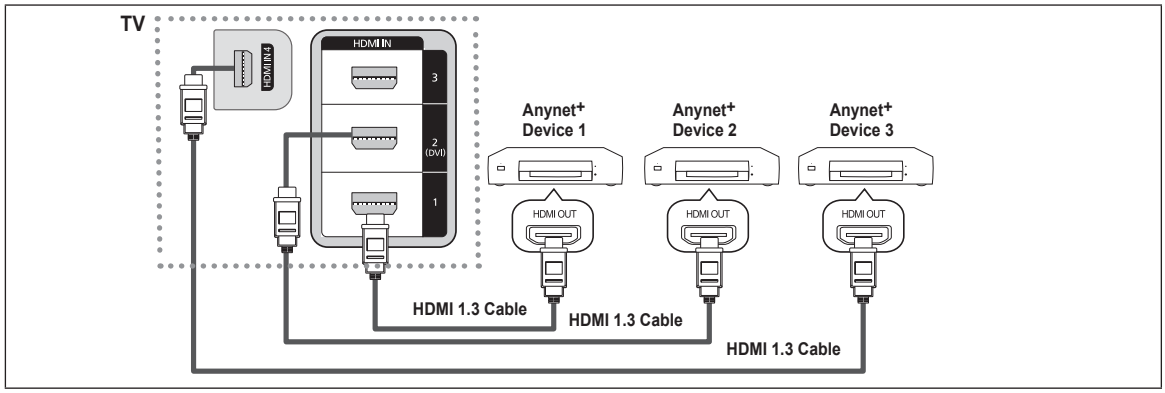


About Anynet+

Connecting Anynet+ Devices

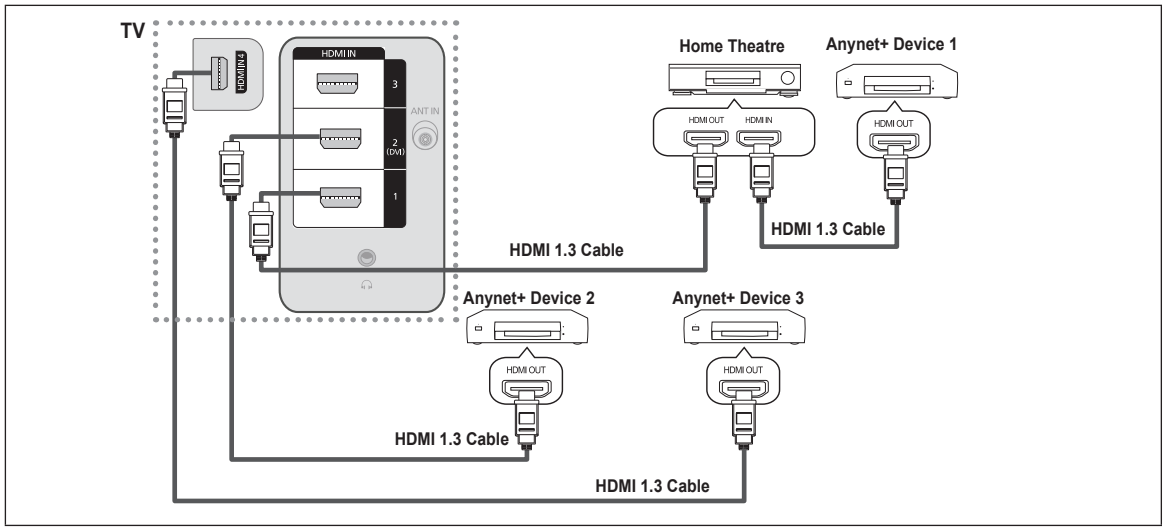
The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

❑ To connect to a TV



1. Connect the [HDMI IN 1], [HDMI IN 2(DVI)], [HDMI IN 3], or [HDMI IN 4] jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.

❑ To connect to Home Theater

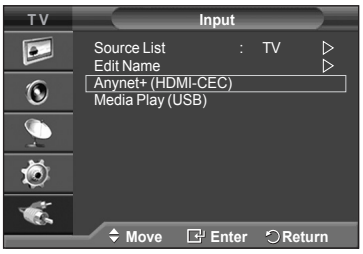


1. Connect the [HDMI IN 1], [HDMI IN 2(DVI)], [HDMI IN 3], or [HDMI IN 4] jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.
2. Connect the HDMI IN jack of the home theater and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.

- Connect only one Home Theater.
- You can connect an Anynet+ device using the HDMI 1.3 cable. Some HDMI cables may not support Anynet+ functions.
- Anynet+ works when the AV device supporting Anynet+ is in the Standby or On status.
- Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

Setting Up Anynet+

Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung TV's remote.



Press the **TOOLS** button to display **TOOLS** menu.
You can also display Anynet+ menu by selecting **TOOLS** → **Anynet+(HDMI-CEC)**.

❑ Setup

You can set the environment for using Anynet+.

- **Anynet+(HDMI-CEC)** → **Off / On**
  To use the Anynet+ Function, **Anynet+ (HDMI-CEC)** must be set to **On**.
  - When the **Anynet+ (HDMI-CEC)** function is disabled, all the Anynet+ related operations are deactivated.

- **Auto Turn Off** → **No / Yes**
  Setting an Anynet+ Device to turn Off Automatically when the TV is Turned Off
  - The active source on the TV remote must be set to TV to use the Anynet+ function.
  - If you set **Auto Turn Off** to **Yes**, connected external devices are also turned off when the TV is turned off. If an external device is still recording, it may or may not turn off.

- **Searching Connections**
  Searches the all connected devices.
  When searching devices completes, the connected devices are listed in the Anynet+ menu.

Scanning and Switching between Anynet+ Devices

1. Press the **TOOLS** button. Press the **ENTER** button to select **Anynet+ (HDMI-CEC)**.
2. Press the ▲ or ▼ button to select **Select Device**, then press the **ENTER** button.
   - Anynet+ devices connected to the TV are listed. If you cannot find a device you want, press the red button to scan for devices.
   - Only when you set **Anynet+ (HDMI-CEC)** to **On** in the **Setup** menu, the **Device List** menu appears.
3. Press the ▲ or ▼ button to select to a particular device and press the **ENTER** button. It is switched to the selected device.
4. If you cannot find a device you want, press the ▲ or ▼ button to select **Searching Connections**, then press the **ENTER** button.
5. The meassage **Configuring Anynet+ connection** is displayed. When searching devices completes, the connected devices are listed in the Anynet+ menu

- Switching to the selected devices may take up to 2 minutes. You cannot cancel the operation during the switching operation.
- The time required to scan for devices is determined by the number of connected devices.
- When the device scan is complete, the number of devices found are not displayed.
- Although the TV automatically searches the device list when the TV is turned on via the power button, devices connected to the TV when the TV is on or under some conditions are not automatically displayed in the device list. Press the red button to search for the connected device.
- If you have selected external input mode by pressing the **SOURCE** button, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the **Device List**.

Continued...

❑ Anynet+ Menu

The **Anynet+** menu changes depending on the type and status of the Anynet+ devices connected to the TV.

Anynet+ Menu	Description
View TV	Switches from Anynet+ to TV broadcast mode.
Select Device	Your TV connects to the corresponding device.
Record	Starts a recording. (This menu works only for a device supporting recording.)
---- MENU	Shows the menu of the connected device. Example. When a DVD Recorder is connected, the DVD Recorder's title menu appears.
---- INFO	Shows the play control menu of the connected device. Example. When a DVD Recorder is connected, the play control menu of the DVD Recorder appears.
Receiver	Sound is output through the receiver.
Setup	You can set the environment for using Anynet+.

❑ TV Remote Control Buttons Available in Anynet+ Mode

Device Type	Operating Status	Available Buttons
Anynet+ Device	After switching to the device, when the menu of the corresponding device is displayed on the screen.	Numeric buttons ▲/▼/◄/►/**ENTER**↵ buttons Colour buttons / **EXIT** button
	After switching to the device, while playing a file	◄◄(Backward search) / ►►(Forward search) ■(Stop) / ►(Play) / ❚❚(Pause)
Device with built-in Tuner	After switching to the device, when you are watching a TV programme	**P** ∧ / ∨ button
Audio Device	When Receiver is activated	🔊 + / − button 🔇 **MUTE** button

- The Anynet+ function only works when the active source on the TV remote control is set to TV.
- The ● button works only while in the recordable state.
- You cannot control Anynet+ devices using the buttons on the TV. You can control Anynet+ devices only using the TV remote control.
- The TV remote control may not work under certain conditions. In this case, reselect the Anynet+ device.
- The Anynet+ functions do not operate with other manufacturers' products.
- In Anynet+ mode, the colour buttons may not work properly.
- The ◄◄, ►► operations may differ depending on the device.

Recording

You can make a recording of a TV programme using a Samsung recorder.

1. Press the **TOOLS** button. Press the **ENTER**↵ button to select **Anynet+ (HDMI-CEC)**.
2. Press the ▲ or ▼ button to select **Record**, then press the **ENTER**↵ button. Recording begins.

- **When there is more than one recording device**
  When multiple recording devices are connected, the recording devices are listed. Press the ▲ or ▼ button to select a recording device and press the **ENTER**↵ button. Recording begins.
- **When the recording device is not displayed**
  Select **Select Device** and press the red button to search devices.

- You can record the source streams by selecting **Record**.
- Pressing the ● button will record whatever you are currently watching. If you are watching video from another device, the video from the device is recorded.
- Before recording, check whether the antenna jack is properly connected to the recording device. To properly connect an antenna to a recording device, refer to the recording device's users manual.

Listening through a Receiver (Home theater)

You can listen to sound through a receiver instead of the TV speaker.

1. Press the **TOOLS** button. Press the **ENTER** button to select **Anynet+ (HDMI-CEC)**.
2. Press the ▲ or ▼ button to select **Receiver**. Press the ◄ or ► button to select **On** or **Off**.

- If your receiver supports audio only, it may not appear in the device list.
- When listening through the receiver, there are restrictions for using the PIP and audio-related (MTS, Preferred language) menus.
- If there is a power interruption to the TV when the **Receiver** is set to **On** (by disconnecting the power cord or a power failure), the **Select Speaker** may be set to **External Speaker** when you turn the TV on again.

Troubleshooting for Anynet+

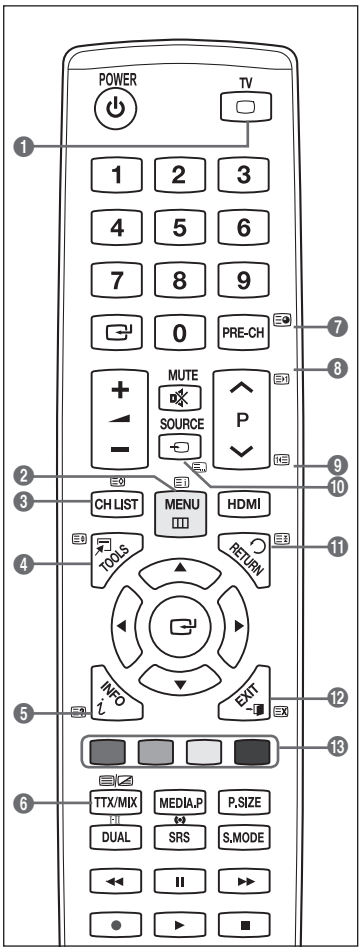
Symptom	Solution
Anynet+ does not work.	• Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. • Connect only one receiver (home theater). • Check if the Anynet+ device power cord is properly connected. • Check the Anynet+ device's Video/Audio/HDMI 1.3 cable connections. • Check whether **Anynet+ (HDMI-CEC)** is set to **On** in the Anynet+ setup menu. • Check whether the TV remote control is in TV mode. • Check whether it is Anynet+ exclusive remote control. • Anynet+ doesn't work in certain situations. (Searching channels, Operating Media Play, Plug & Play, etc.) • When connecting or removing the HDMI 1.3 cable, please make sure to search devices again or turn your TV off and on again. • Check if the Anynet+ Function of Anynet+ device is set on.
I want to start Anynet+.	• Check if the Anynet+ device is properly connected to the TV and check if the **Anynet+ (HDMI-CEC)** is set to **On** in the Anynet+ Setup menu. • Press the **TV** button on the TV remote control to switch to TV. Then press the **TOOLS** button to show the Anynet+ menu and select a menu you want.
I want to exit Anynet+.	• Select View TV in the Anynet+ menu. • Press the **SOURCE** button on the TV remote control and select a device other than Anynet+ devices. • (Note that the channel button operates only when a tuner-embedded Anynet+ device is not connected.)
The message Connecting to Anynet+ device... appears on the screen.	• You cannot use the remote control when you are configuring Anynet+ or switching to a view mode. • Use the remote control when the Anynet+ setting or switching to view mode is complete.
The Anynet+ device does not play.	• You cannot use the play function when Plug & Play is in progress.
The connected device is not displayed.	• Check whether or not the device supports Anynet+ functions. • Check whether or not the HDMI 1.3 cable is properly connected. • Check whether **Anynet+ (HDMI-CEC)** is set to **On** in the Anynet+ setup menu. • Search Anynet+ devices again. • You can connect an Anynet+ device using the HDMI 1.3 cable only. Some HDMI cables may not support Anynet+ functions. • If it is terminated by an abnormal situation such as disconnecting the HDMI cable or power cord or a power failure, please repeat the device scan.
The TV programme cannot be recorded.	• Check whether the antenna jack on the recording device is properly connected.

Recommendations for Use

Teletext Feature

Most television stations provide written information services via Teletext. The index page of the teletext service gives you information on how to use the service. In addition, you can select various options to suit your requirements by using the remote control buttons.

For teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.



❶ **(exit)**

Exit from the teletext display.

❷ **(index)**

Used to display the index (contents) page at any time while you are viewing teletext.

❸ **(store)**

Used to store the teletext pages.

❹ **(size)**

Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again. To display normal screen, press it once again.

❺ **(reveal)**

Used to display the hidden text (answers to quiz games, for example). To display normal screen, press it again.

❻ **(teletext on/mix)**

Press to activate teletext mode after selecting the channel providing the teletext service. Press it twice to overlap the teletext with the current broadcasting screen.

❼ **(sub-page)**

Used to display the available sub-page.

❽ **(page up)**

Used to display the next teletext page.

❾ **(page down)**

Used to display the previous teletext page.

❿ **(mode)**

Press to select the teletext mode (LIST/FLOF). If you press it in the LIST mode, it switches into the List save mode. In the List save mode, you can save teletext page into list using the (store) button.

⓫ **(hold)**

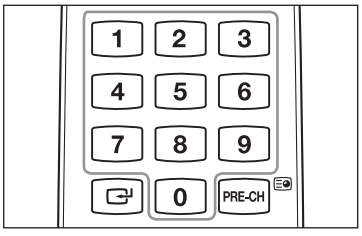
Used to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.

⓬ **(cancel)**

Used to display the broadcast when searching for a page.

⓭ **Colour buttons (red/green/yellow/blue)**

If the FASTEXT system is used by a broadcasting company, the different topics covered on a teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way. To display the previous or next page, press the corresponding coloured button.

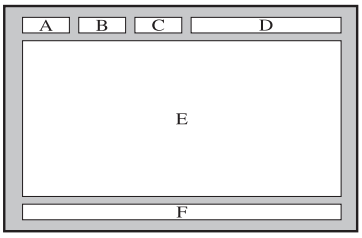


You can change teletext pages by pressing the numeric buttons on the remote control.

Continued...

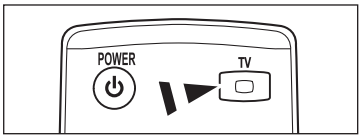
The teletext pages are organized according to six categories:

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information.
	FASTEXT information.



- Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
  - Entering the page number
  - Selecting a title in a list
  - Selecting a coloured heading (FASTEXT system)

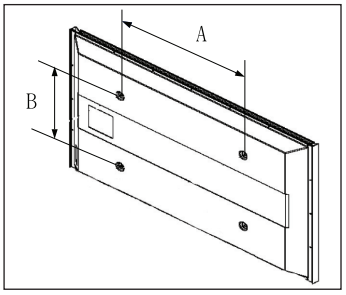
- Press the **TV** button to exit from the teletext display.



Wall Mount Kit Specifications (VESA)

Install your wall mount on a solid wall perpendicular to the floor.
When attaching to other building materials, please contact your nearest dealer.
If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.

Product Family	inch	VESA Spec. (A * B)	Standard Screw	Quantity
LCD-TV	19″ ~ 22″	100 * 100	M4	4
	23″ ~ 29″	200 * 100		
	30″ ~ 40″	200 * 200	M6	
	46″ ~ 55″	400 * 400	M8	
	57″ ~ 70″	800 * 400		
	80″ ~	1400 * 800		
PDP-TV	42″ ~ 50″	400 * 400	M8	4
	58″ ~ 63″	600 * 400		
	70″ ~	800 * 400		
	80″ ~	1400 * 800		

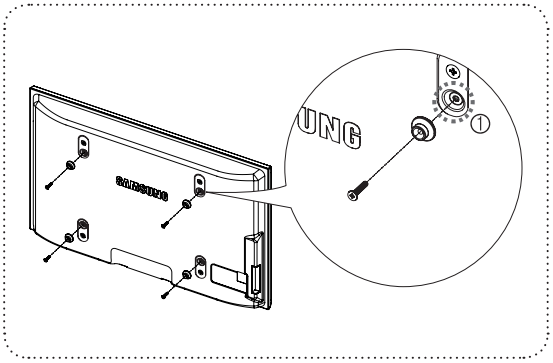


- We provided the standard dimensions for wall mount kits as shown in the table above.
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws longer than the standard dimension, as they may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Do not use screws that do not comply with the VESA standard screw specifications.
  Do not use fasten the screws too strongly, this may damage the product or cause the product to fall, leading to personal injury.
  Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Our 57” and 63” models do not comply with VESA Specifications. Therefore, you should use our dedicated wall mount kit for this model.
- Do not exceed 15 degrees tilt when mounting this TV.

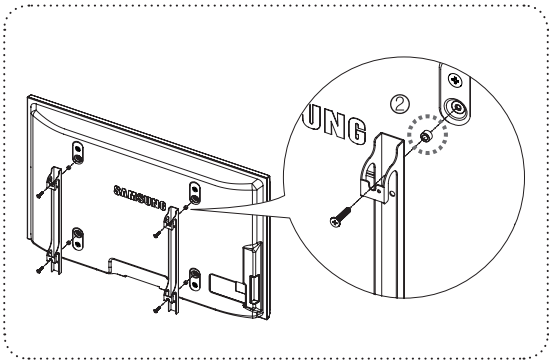
> Do not install your Wall Mount Kit while your TV is turned on.
> It may result in personal injury due to electric shock.

Preparation before installing the Wall-Mount

Case A. Installing the SAMSUNG Wall-Mount



Case B. Installing another company's Wall-Mount

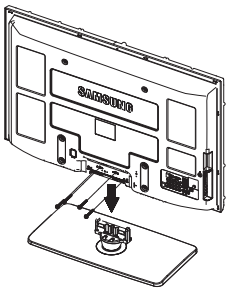


1. Install the Wall Mount with a torque range of 15kgf·cm or less. Use care as the parts can be damaged if the torque is out of the specified range.
2. Accessory Kit contains Holder–Ring [②] for installing another company's Wall-Mount. (Case B)

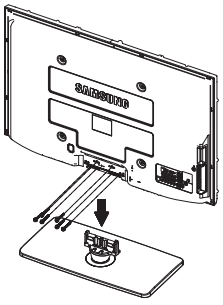
   Screw down the hole [①] when installing wall-mount on the wall.

How to assemble the Stand-Base **(depending on the model)**

Using the screws for securing the stand base and the monitor, firmly attach the monitor to the stand base. (The exterior of the set may be different than the picture.)



(PS50B550)



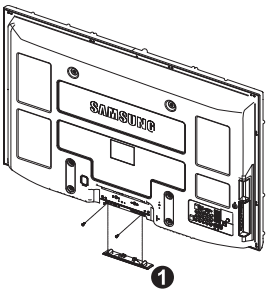
(PS58B550)

Warning

Firmly secure the stand to the TV before moving it, as the stand may fall and could cause serious injury.

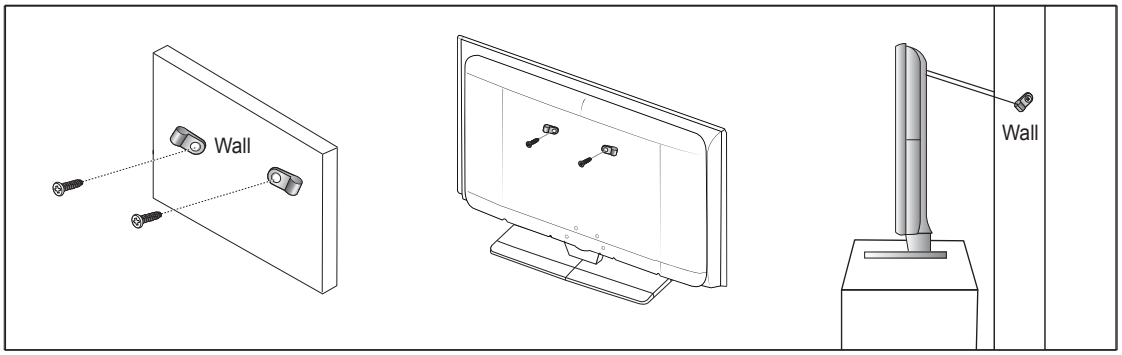
Two or more people should carry the TV. Never lay the TV on the floor because of possible damage to the screen. Always store the TV upright.

In case of installing your TV on the wall, close the cover (❶) on the stand-base connection part using two screws for hiding.



Securing the TV to the Wall

Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, causing serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.



To avoid the TV from falling

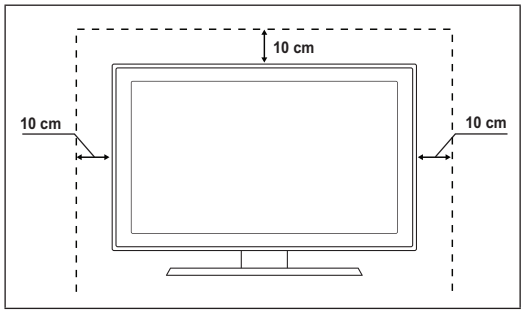
1. Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.
   - You may need additional material such as an anchor depending on the type of wall.
   - Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.
2. Remove the screws from the center back of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
   - Screws may not be supplied with the product.
3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong string and then tie the string tightly.
   - Install the TV near to the wall so that it does not fall backwards.
   - It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
   - Untie the string before moving the TV.
4. Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections,contact a professional installer.

Securing the Installation Space

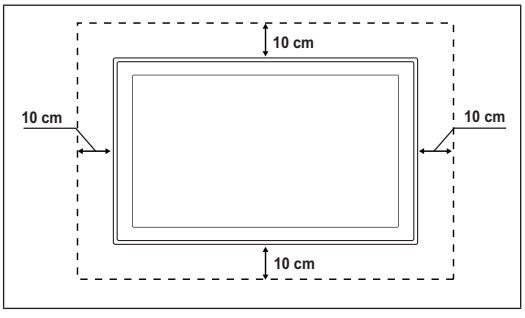
Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation.
Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product.
Install the product so the required distances shown in the figure are kept.

- When using a stand or wall-mount, use parts provided by Samsung Electronics only.
  - If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.
  - If you use parts provided by another manufacturer, it may result in a problem with the product or fire due to an increase in the internal temperature of the product due to poor ventilation.
- The appearance may differ depending on the product.

■ **When installing the product with a stand**



■ **When installing the product with a wall-mount**



Troubleshooting

Before contacting the Samsung after-sales service, perform the following simple checks.
If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture	• Check that the mains lead has been connected to a wall socket. • Check that you have pressed the button on your set. • Check the picture contrast and brightness settings. • Check the volume. • Check if **Select Speaker** is set to **External Speaker**.
Normal picture but no sound	• Check the volume. • Check whether the **MUTE** button has been pressed on the remote control.
No picture or black and white picture	• Adjust the colour settings. • Check that the broadcast system selected is correct.
Sound and picture interference	• Try to identify the electrical appliance that is affecting the television, then move it further away. • Plug the television into a different main socket.
Blurred or snowy picture, distorted sound	• Check the direction, location and connections of your aerial. • This interference often occurs due to the use of an indoor aerial.
Remote control malfunctions	• Replace the remote control batteries. • Clean the upper edge of the remote control (transmission window). • Check that the **+** and **–** ends of the batteries are inserted correctly. • Check that the batteries are drained.
Screen is black and power indicator light blinks steadily	• On your computer check; Power, Signal Cable. • Move the computer's mouse or press any key on the keyboard. • On your equipment check (STB, DVD, etc) ; Power, Signal Cable. • The TV is using its power management system. • Press the Source button on the panel or remote control. • Turn the TV off and on.
The damaged picture appears in the corner of the screen.	• If **Screen Fit** is selected in some external devices, the damaged picture may appear in the corner of the screen. This symptom is caused by external devices, not TV.
The "Resets all settings to the default values" message appears.	• This appears when you press and hold the **EXIT** button for a while. The product settings are reset to the factory defaults.

Specifications

The descriptions and characteristics in this booklet are given for information purposes only and are subject to modification without notice.

Model Name	PS50B550	PS58B550
Screen Size (Diagonal)	50 inch	58 inch
PC Resolution (Optimum)	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound (Output)	10 W x 2	15 W x 2
Dimension (WxHxD)		
Body	1240 x 766 x 74 mm	1418 x 866 x 74 mm
With stand	1240 x 822 x 290 mm	1418 x 924 x 335 mm
Weight		
Body	33 kg	38 kg
With stand	38 kg	45 kg
Environmental Considerations		
Operating Temperature	50 °F to 104 °F (10 °C to 40 °C)	
Operating Humidity	10% to 80%, non-condensing	
Storage Temperature	-4 °F to 113 °F (-20 °C to 45 °C)	
Storage Humidity	5% to 95%, non-condensing	

- This device is a Class B digital apparatus.
- Design and specifications are subject to change without prior notice.
- For the power supply and Power Consumption, refer to the label attached to the product.